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Here is my input: 3 research products from fy 98

Product:
Advanced Crew resource Management Training system

Customers: FAA Flight Standards Air Carrier Training and FAA Advanced
Qualification Office. Domestic and Foreign Carriers. Maritime
industry.

Agency outputs; This training system is the result of three years of
research with a major and a regional air carrier to improve human
factors on the flight deck. This research addressed procedularizing
areas of cockpit performance to enhance operational safety. While
technical tasks have used procedures abundantly, the human factors
area of flight performance has not. Prior to this research most
cognitive tasks sucha as situational awareness, decision making and
communication were left to the crew's discretion as to how to
implement such tasks. This approach has not been totally
satisfactory. This research procedularized the most critical congnitve
tasks in the most critical phases of flight. This approach proved to
improved crew effectiveness both in simulator training and in line
operations. Additionally, this project resulted in improved methods
for instructor training and assessment of human factors on the flight
deck. The training system has been widely distributed both nationally
and internationally. This office has been contacted by the maritime
industry to investigate implementing this system in those operations.

2. Prototype Rapidly Reconfigurable Event Sets. This project
provides air carriers with methods and software to develop training
scenarios from approved events sets, (flight segments). This project
saves resources for the carries but most importantly for the FAA this
product allows the carriers to develop unique assessment and
evaluation scenarios for each crew. Currently, most carriers have a
very limited set of scenarios for each training cycle. The cost of
developing a new scenario for each crew is prohibited. Training
validity may be compromised because of this.

FAA customers: Certificate management offices, flight standards at
headquarters and the Advanced Qualification Office.

Output: This project is being conducted with two major carriers and
has provided the prototype system. Completion expected FY 2000.

3. Instructor Evalutor Calibration Training. This project has
developed methods and software to allow air carriers to train and
calibrate instructors using computer technology. This is a
significant advance in training methdology for the carriers and the
FAA. It allows the carriers to train and calibrate one instructor

rather than having to bring together a large group of instructors. This allows the FAA oversight offices to determine the level of standardization in each fleet and across fleets in a particular carrier.

This product is fully operational at one major carrier and will be distributed to the entire industry FY 99.